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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/828,997	04/20/2004	David W. Caldwell	37041-11481	6796
2574 JENNER & BI	7590 07/18/2007 LOCK, LLP		· EXAMINER	
ONE IBM PLAZA CHICAGO, IL 60611			ARBES, CARL J	
			ART UNIT	PAPER NUMBER
			3729	
·			MAIL DATE	DELIVERY MODE
	•		07/18/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	10/828,997	CALDWELL ET AL.				
Office Action Summary	Examiner	Art Unit				
•	C. J. Arbes	3729				
The MAILING DATE of this communication ap						
Period for Reply		•				
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period. - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	OATE OF THIS COMN 136(a). In no event, however, r will apply and will expire SIX (6 e, cause the application to become	IUNICATION. nay a reply be timely filed i) MONTHS from the mailing date of this communication. me ABANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 04 ft	<u>⁄/ay 2007</u> .					
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closed in accordance with the practice under	<i>Ex рапе Quayle</i> , 1933	5 C.D. 11, 453 O.G. 213.				
Disposition of Claims		·				
4)⊠ Claim(s) <u>1-19 and 26-45</u> is/are pending in the	4) Claim(s) 1-19 and 26-45 is/are pending in the application.					
	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) 19 is/are allowed.						
	S)					
7)⊠ Claim(s) <u>7-12,17,18, 36-38 and 41-45</u> is/are of 8) ☐ Claim(s) are subject to restriction and/of		t .				
· ·	or clootion requiremen					
Application Papers						
9)☐ The specification is objected to by the Examin						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the	=					
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the E	•					
	Adminor. Word the det	Action of format 10 702.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 						
2. Certified copies of the priority documen3. Copies of the certified copies of the priority						
application from the International Burea	•					
* See the attached detailed Office action for a lis						
•						
Attachment(s)						
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)		view Summary (PTO-413) er No(s)/Mail Date				
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date ハッルル		ce of Informal Patent Application r:				

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The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 15, 16, 32-35, 39 and 40 are rejected under 35 U.S.C. 103(a) as being unpatentable over Barraclough, Pat. No. 3,864,180; hereinafter Barraclough.

Barraclough teaches a process for forming thin-film circuit device wherein a substrate is covered with a thin-film layer of material having electrical characteristics corresponding to the circuit device, which is covered by an intermediate (or first) conductive material which in turn is covered by a second conductive material. (Cf. Abstract) The second conductive layer is etched to form a cavity above the intermediate layer. Subsequently the intermediate conductive and the thin-film layers are selectively etched. The etchants used for the different conductive layers are different (Cf. Col 3). It would have been obvious to selectively etch a portion of the second conductive material and selectively etch a portion of the first conductive material if in fact Barraclough does not expressly teach these limitations since the device produced much have a cavity therein.

Claims 1-6, 13, 14, 26-31 are rejected under 35 U.S.C. 103(a) as being unpatentable over Barraclough in view of Japan Pat No. 03-221922, by Hatano et al (of record) or vice versa. The Barraclough teaching has been provided hereinabove and is not repeated. The Hatano et al teaching has been provided in a previous Office action and also is not repeated. It would have been obvious to combine the two teachings and to construct a display device by providing by, for example sputtering a driving circuit (

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i.e. first conductive material) and a transparent film (comprising an InSnO(sub 2). (N.B. The thin film devices taught by Barraclough will generally be flexible.) As applied to claims 5 and 6 it would have been obvious that if one were soldering an electrical component to the circuit that the component would be electrically connected to the second conductive material inasmuch as this would be expedient and practical. As applied to claims 13 and 14 it is held to be old and hence obvious to deposit at least one of the conductive materials be a vacuum means. In fact Hatano et al do teach sputtering or electron beam evaporation of a noble metal onto a transparent substrate. (N.B. The sputtering process uses a vacuum.) As applied to claims 29-31 if indeed Barraclough does not expressly teach the specific limitations in these dependent claims nevertheless it would have been obvious to e.g. etch the second conductive layer at a rate which is slower than that of a first rate (in order to properly provide the electrical circuit.

Claims 7-12, 17, 18, 36-38 and 41-45 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claim 19 is held to be allowable.

Applicants' Remarks filed on r about04 May 2007 have been carefully considered but are not deemed to affect change Office's position re patentability of claims 1-6, 13-16, 26-35, 39 and 40

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP

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§ 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to C. J. Arbes whose telephone number is 571-272-4563. The examiner can normally be reached on M, T, R and F from 8 to 6.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, P. Vo, can be reached on 571-272-4690. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

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you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

C. J. Arbes. Primary Examiner Art Unit 3729